

# Comparisons of Job Characteristics

**Focus Occupation:** [Computer Systems Analysts \(15-1051\)](#)

**Associated Occupation:** [Computer Operators \(43-9011\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 89

**Focus Occupation:** Computer Systems Analysts (15-1051)

**Associated Occupation:** Computer Operators (43-9011)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Computers and Electronics	8.4	17.1	19.3	>	Current knowledge level is likely sufficient
Customer and Personal Service	11.3	14.3	15.4	0	Current knowledge level may be sufficient
Clerical	7.3	13.8	11.8	<	Expanded education and/or training may be required
Telecommunications	3.9	7.4	6.8	0	Current knowledge level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 55

**Focus Occupation:** Computer Systems Analysts (15-1051)

**Associated Occupation:** Computer Operators (43-9011)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Operation Monitoring	6.6	12.2	7.9	<<	Extensive development of skills in this area may be required
Monitoring	9.9	11.9	11.1	0	Current skill level may be sufficient
Operation and Control	5.4	9.6	3.8	<<	Extensive development of skills in this area may be required
Quality Control Analysis	5.9	9.4	10.3	0	Current skill level may be sufficient
Systems Analysis	6.5	9.2	12.6	>>	Skill level is likely more than sufficient
Troubleshooting	4.5	9.1	8.9	0	Current skill level may be sufficient
Programming	2.2	6.6	10.2	>>	Skill level is likely more than sufficient
Management of Material Resources	3.7	6.1	5.4	<	A higher skill level may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 90			
Focus Occupation: Computer Systems Analysts (15-1051) Associated Occupation: Computer Operators (43-9011)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Problem Sensitivity	11.1	12.2	13.2	0	Current ability level may be sufficient
Oral Comprehension	12.5	11.9	13.9	>	Current ability level is likely sufficient
Near Vision	11.1	11.8	12.3	0	Current ability level may be sufficient
Oral Expression	12.4	11.7	13.1	>	Current ability level is likely sufficient
Selective Attention	8.7	11.6	9.9	<	Some improvement in abilities may be required
Information Ordering	9.9	11.1	12.9	>	Current ability level is likely sufficient
Written Comprehension	11.0	11.0	13.9	>	Current ability level is likely sufficient
Perceptual Speed	7.4	10.6	9.0	<	Some improvement in abilities may be required
Flexibility of Closure	7.8	9.8	10.4	0	Current ability level may be sufficient
Memorization	5.6	7.2	7.3	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 87
Focus Occupation: Computer Systems Analysts (15-1051) Associated Occupation: Computer Operators (43-9011)		
Work Activities	Exclusivity of Activity	
Communicate technical information	4	
Follow data storage procedures	75	
Maintain client-server database	89	
Maintain or repair computers or related equipment	81	
Monitor computer operation	85	
Operate computer networks	92	
Provide technical support to computer users	80	
Test computer programs or systems	78	
Use computers to enter, access or retrieve data	3	
Use knowledge of mainframe computers	78	

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus  
Occupation to Associated  
Occupation: 81

**Focus Occupation: Computer Systems Analysts (15-1051)**  
**Associated Occupation: Computer Operators (43-9011)**

Tools and Technologies	Exclusivity
Business function specific software	1
Computers	1
Content authoring and editing software	1
Data management and query software	1
Development software	4
Finance accounting and enterprise resource planning ERP software	2
Network applications software	1
Network management software	37
Networking software	21
Operating environment software	12
Personal communication devices	2
Utility and device driver software	17

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.